

PTO-1449 Information Disclosure Citation In an Application	Application No. 10/611,564	Applicant(s) Kenneth R. Hall, et al.	
	Docket Number 017575.0854	Group Art Unit 1621	Filing Date July 1, 2003

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A	1,023,783	04/1912	Knapp			
<input checked="" type="checkbox"/>	B	1,229,886	06/1917	Cherry			
<input checked="" type="checkbox"/>	C	1,773,611	08/1930	Banck			
<input checked="" type="checkbox"/>	D	1,800,586	04/1931	Youker			
<input checked="" type="checkbox"/>	E	1,880,307	10/1932	Wulff			
<input checked="" type="checkbox"/>	F	1,904,426	04/1933	Eisenhut			
<input checked="" type="checkbox"/>	G	1,917,627	07/1933	Wulff			
<input checked="" type="checkbox"/>	H	1,966,779	07/1934	Wulff	260	170	
<input checked="" type="checkbox"/>	I	Re 19,500	3/1935	Youker	196	10	
<input checked="" type="checkbox"/>	J	Re 19,794	12/1935	Banck et al.	260	170	
<input checked="" type="checkbox"/>	K	2,028,014	01/1936	Reinecke	204	31	
<input checked="" type="checkbox"/>	L	2,037,056	04/1936	Wulff	260	170	
<input checked="" type="checkbox"/>	M	2,080,931	05/1937	Rose	240	31	
<input checked="" type="checkbox"/>	N	2,160,170	05/1939	Martin et al.	260	679	
<input checked="" type="checkbox"/>	O	2,328,864	09/1943	Throckmorton	196	10	
<input checked="" type="checkbox"/>	P	2,475,282	7/1949	Hasche	23	209.4	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<input checked="" type="checkbox"/>	Q	0289391	03/1990	EP	C07C	2/76		
<input checked="" type="checkbox"/>	R	0435591A2	12/1990	EP	C07C	11/24		

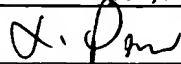
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<input checked="" type="checkbox"/>	S	A. Malek, et al., "Hydrogen Purification from Refinery Fuel Gas by Pressure Swing Adsorption," <i>AIChE Journal</i> , Vol. 44, No. 9, Sep. 1998, pp. 1985-1992.	09/1998
<input checked="" type="checkbox"/>	T	Marshall Sittig, "Acetylene Processes and Products," <i>Chemical Process Review</i> , No. 22, 1968, 229 pages.	1968
<input checked="" type="checkbox"/>	U	L. Bromberg, et al., "Plasma Reforming of Methane," <i>Energy & Fuels</i> , Vol. 12, No. 1, 1998, pp. 11-18	1998
<input checked="" type="checkbox"/>	V	Michael J. Corke, "GTL Technologies Focus on Lowering Cost," <i>Oil & Gas Journal</i> , Sep. 21, 1998, pp. 71-77	09/21/1998

EXAMINER <i>J. P. [Signature]</i>	DATE CONSIDERED 11/13/05
--------------------------------------	-----------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

DAL01:802296.1

PTO-1449				Application No. 10/611,564		Applicant(s) Kenneth R. Hall, et al.	
Information Disclosure Citation In an Application				Docket Number 017575.0854		Group Art Unit 1621	
						July 1, 2003	
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
W		2,550,089	04/1951	Schlesman	204	171	
X		2,558,861	07/1951	Liggett	23	288	
Y		2,645,673	07/1953	Hasche	260	679	
Z		2,675,294	04/1954	Keith	23	1	
AA		2,714,126	07/1955	Keith	260	679	
BB		2,751,424	06/1956	Hasche	260	679	
CC		2,768,223	10/1956	Williams et al.	260	679	
DD		2,986,505	05/1961	Lauer et al.	204	156	
EE		3,156,733	11/1964	Happel et al.	260	679	
FF		3,168,592	02/1965	Cichelli et al.	260	679	
GG		3,262,757	07/1966	Bodmer	32	284	
HH		3,283,028	11/1966	Bergstrom et al.	260	683	
II		3,320,146	05/1967	Neely, Jr.	204	171	
JJ		3,389,189	06/1968	Hirayama et al.	260	679	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
KK							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
LL		Michael J. Corke, "Economics Favor GTL Projects with Condensate Coproduction," <i>Oil & Gas Journal</i> , Sep. 28, 1998, pp. 96-101					09/28/1998
MM		Alan H. Singleton, "Advances Make gas-to-liquids Process Competitive for Remote Locations," <i>Oil & Gas Journal</i> , Aug. 4, 1997, pp. 68-72					08/04/1997
NN		T. Kodama, et al., "High-Temperature Conversion of CH ₄ to C ₂ -Hydrocarbons and H ₂ Using a Redox System of Metal Oxide," <i>Energy & Fuels</i> , Vol. 11, No. 6, 1997, pp. 1257-1263					1997
OO		S.H. Bauer, et al., "Upgrading of Methane Under Homogeneous Thermal Conditions: An Environmental and Economic Imperative," <i>Energy & Fuels</i> , Vol. 11, 1997, pp. 1204-1218					1997
PP		"A —Liquefied Natural Gas as a Heavy Vehicle Fuel," <i>Commerce Business Daily</i> , Jul. 17, 1997					07/17/1997
QQ		Lance L. Lobban, et al., "Oxidative Coupling of Methane Using an AC Electric Discharge," <i>American Institute of Chemical Engineers 1996 Annual Meeting, Session 37, Paper 37f</i>					1996
RR		D.Q. Kern, "Process Heat Transfer," McGraw-Hill Book Co., New York (1950)					1950
SS		PCT International Search Report, Application No. PCT/US02/07183, Oct. 2, 2002					10/02/2002
EXAMINER					DATE CONSIDERED		
					11/13/05		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							
U.S. PATENT AND TRADEMARK OFFICE							

DAL01:802296.1

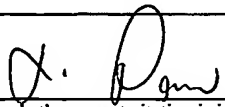
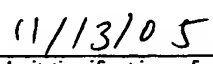
PTO-1449 Information Disclosure Citation In an Application			Application No. 10/611,564		Applicant(s) Kenneth R. Hall, et al.		
			Docket Number 017575.0854	Group Art Unit 1621	July 1, 2003		
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
SP	TT	3,409,695	11/1968	Sennewald et al.	260	679	
	UU	3,622,493	11/1971	Crusco	204	323	
	VV	3,663,394	05/1972	Kawahara	204	168	
	WW	3,674,668	07/1972	Bjornson et al.	204	171	
	XX	3,697,612	10/1972	Maniero et al.	260	679	
	YY	3,703,460	11/1972	Shair et al.	204	327	
	ZZ	4,014,947	03/1977	Volodin et al.	C07C	21/02	
	AAA	4,128,595	12/1978	Montgomery	585	261	
	BBB	4,309,359	01/1982	Pinto	518	705	
	CCC	4,336,045	06/1982	Saunders et al.			
	DDD	4,367,363	01/1983	Katz et al.	585	809	
	EEE	4,378,232	03/1983	Peuckert et al.	48	210	
	FFF	4,424,401	01/1984	White et al.	585	416	
	GGG	4,492,591	01/1985	O'Reilly	62	632	
	HHH	4,497,970	02/1985	Young	585	417	
	III	4,513,164	04/1985	Oláh	585	700	
	JJJ	4,566,961	01/1986	Diaz et al.	204	168	
	KKK	4,575,383	03/1986	Lowther et al.	48	212	
	LLL	4,588,850	05/1986	Mueller et al.	585	539	
SP	MMM	4,704,496	11/1987	Paparizos et al.	585	500	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	NNN						
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	OOO						
EXAMINER				DATE CONSIDERED			
				11/13/05			
<small>EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</small>							
U.S. PATENT AND TRADEMARK OFFICE							

PTO-1449 Information Disclosure Citation In an Application		Application No. 10/611,564		Applicant(s) Kenneth R. Hall, et al.	
		Docket Number 017575.0854	Group Art Unit 1621	July 1, 2003	

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
SP	PPP	4,705,906	11/1987	Brophy et al.	585	262	
	QQQ	4,705,908	11/1987	Gondouin	585	500	
	RRR	4,757,787	07/1988	Risitano et al.	123	25	
	SSS	4,761,515	08/1988	Gondouin	585	500	
	TTT	4,795,536	01/1989	Young et al.	424	422	
	UUU	4,797,185	01/1989	Polak et al.	205	637	
	VVV	4,822,940	04/1989	Leff et al.	585	415	
	WWW	4,906,800	03/1990	Henry et al.	585	260	
	XXX	4,950,821	08/1990	Ratnasamy et al.	585	310	
	YYY	4,952,743	08/1990	Come	585	541	
	ZZZ	4,973,776	11/1990	Allenger et al.	585	310	
	AAAA	4,973,786	11/1990	Karra	585	500	
	BBBB	4,981,829	01/1991	Shutt et al.	502	202	
	CCCC	5,012,029	04/1991	Han et al.	585	500	
	DDDD	5,015,349	05/1991	Suib et al.	204	168	
	EEEE	5,019,355	05/1991	Sackinger	422	186.04	
	FFFF	5,026,944	06/1991	Allenger et al.	585	500	
	GGGG	5,053,575	10/1991	Nikravech et al.	585	500	
SP	HHHH	5,073,666	12/1991	Zemanian et al.	585	734	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	III							

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	JJJJ		

EXAMINER <div style="text-align: center; font-size: 1.5em;">  </div>	DATE CONSIDERED <div style="text-align: center; font-size: 1.5em;">  </div>
--	---

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449	Application No. 10/611,564		Applicant(s) Kenneth R. Hall, et al.	
	Docket Number 017575.0854		Group Art Unit 1621	July 1, 2003

**Information Disclosure Citation
In an Application**

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JK</i>	KKKK	5,118,893	06/1992	Timmons et al.	585	416	
	LLLL	5,131,993	07/1992	Suib et al.	204	168	
	MMMM	5,138,113	08/1992	Juguin et al.	585	322	
	NNNN	5,181,998	01/1993	Murphy et al.	204	157.15	
	OOOO	5,205,912	04/1993	Murphy	204	157.15	
	PPPP	5,205,915	04/1993	Ravella et al.	204	157.15	
	QQQQ	5,277,773	01/1994	Murphy	204	168	
	RRRR	5,328,577	07/1994	Murphy	204	168	
	SSSS	5,336,825	08/1994	Choudhary et al.	585	500	
	TTTT	5,472,581	12/1995	Wan	204	157.6	
	UUUU	5,498,278	03/1996	Edlund	96	11	
	VVVV	5,510,550	04/1996	Cheung et al.	585	259	
	WWWW	5,518,530	05/1996	Sakai et al.	96	11	
	XXXX	5,583,274	12/1996	Cheung et al.	585	261	
	YYYY	5,585,318	12/1996	Johnson et al.	502	330	
	ZZZZ	5,587,348	12/1996	Brown et al.	502	230	
	AAAAA	5,629,102	05/1997	Werth	429	17	
	BBBBB	5,675,041	10/1997	Kiss et al.	568	454	
	CCCCC	5,695,618	12/1997	O'Young et al.	204	157.43	
<i>JK</i>	DDDDD	5,714,657	02/1998	de Vries	585	310	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	EEEE							

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
FFFF		

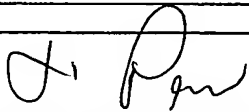
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

DAL01:802296.1

PTO-1449				Application No. 10/611,564		Applicant(s) Kenneth R. Hall, et al.	
Information Disclosure Citation In an Application				Docket Number 017575.0854		Group Art Unit 1621	
						July 1, 2003	
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	GGGGG	5,749,937	05/1998	Detering et al.	75	10.19	
✓	HHHHH	6,130,260	10/2000	Hall et al.	518	703	
✓	IIIII	6,323,247	11/2001	Hall et al.	518	700	
✓	JJJJJ	6,602,920	08/2003	Hall et al.	518	700	
	KKKKK						
	LLLLL						
	MMMMM						
	NNNNN						
	OOOOO						
	PPPPP						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	QQQQQ						YES NO
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	RRRRR						
EXAMINER				DATE CONSIDERED			
				11/13/05			
<small>EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</small>							

U.S. PATENT AND TRADEMARK OFFICE